User Guide

Stellar Phoenix

Windows Data Recovery

Technical 6.0

Overview

With **Stellar Phoenix Windows Data Recovery** software, you can recover *Just About Everything*. **Stellar Phoenix Windows Data Recovery - Technical** edition is a complete solution to recover lost data from your Hard Disks, RAID Disks, Removable Drives, and CDs or DVDs.

In addition, you can recover data from email programs (Outlook and Outlook Express) as well. **Stellar Phoenix** recovery software, provides you with the following five options using which you can recover your important and precious data:

Drive Recovery - This option allows you to recover files that have been deleted from a volume or removable media by using the deleted file recovery process. It also helps you to recover data from a formatted volume by using 'Advanced Recovery' option. Using this option, you can search for deleted or lost volumes in a hard disk and recover data from it. 'Raw Recovery' feature also allows you to recover data on signature basis from an entire hard disk or from any of its volumes.

Stellar Phoenix Windows Data Recovery Main Screen

CD/DVD Recovery - This option allows you can recover data from a damaged optical media storage device (CD/DVD). **Stellar Phoenix** recovery software supports data recovery from optical media discs burnt on Windows, Linux, UNIX, or Macintosh systems.

Photo Recovery - This option of **Stellar Phoenix** recovery software allows you to recover lost or deleted

image / photo files from existing volumes, hard disks, memory cards, or other removable storage devices. It supports recovery of raw image formats from digital cameras like Nikon, Canon, Sony and others.

Email Recovery - This option of **Stellar Phoenix** recovery software will help you to recover deleted emails, contacts, tasks, and reminders from Microsoft Outlook. You can also recover deleted mails and other data from Microsoft Outlook Express as well. You can save the recovered emails in three different file formats - PST, EML, and MSG.

RAID Recovery - This option will help you to recover data from RAID storage devices. **Stellar Phoenix** recovery software supports recovery of data from RAID levels 0, 5, and 6. This feature can recover data from both, hardware and software RAID.

Stellar Phoenix recovery software allows you to save scan information in order to resume the recovery process, from the same point, at a later stage. It also provides you with an option to create an image of a complete hard disk or of a volume / partition of the disk. This image file can be used to recover lost data even when the actual hard drive is not available. You can also create a clone of the hard drive using the option available in the application. This is also a very helpful option, in case there is a hard disk failure or if the hard disk has lot of bad sectors.

Windows Data Recovery 6.0 is the latest version of Windows data recovery software from **Stellar**. Listed below are some of the new and key features of the product.

What's New

- 'Email Recovery' option to recover deleted emails.
- 'RAID Recovery' option now supports data recovery from RAID 0 and RAID 6 levels.
- 'RAID Recovery' option also supports data recovery from software RAID levels 0 and 5.
- 'Remote Recovery' option to recover data from another computer over a network.
- An all-new 'FAT File System' scan engine.
- Deleted file recovery in NTFS formatted partitions, using journal entries.

Key Features

- 'Advanced Find' option

- Categorization of scanned results
- 'CD/DVD Recovery' option to recover data from corrupt CDs/DVDs
- Cloning of hard disk
- Drive status option to monitor the status of hard disk
- Preview of files before recovery
- Raw recovery of volumes and hard drives to search data based on signatures
- Recovers data from accidently deleted volumes
- Recovers data from formatted volumes
- Recovers data from RAID drives
- Recovers deleted files and folders
- Recovers deleted mails of Outlook Express
- Recovers deleted mails, calendars, contacts etc. of Outlook client
- Recovers from hard disk, removable media such as pen drives, memory cards etc.
- Remote Recovery option to recover data from another computer
- Resume recovery option to recover data later on
- Scanning of hard disk for bad sectors
- Supports 300 or more file types
- Supports FAT, NTFS, and ExFAT file systems
- Supports MS Office XP / 2000 / 2003 / 2007 / 2010
- Supports Outlook Express 5.0 and 6.0
- Supports Windows XP / 2000 / Vista / 7 / 8
- Tabbed view of scanned Tree - Classic List / File List / Masked List
- User can add/Edit their file types which makes it more robust
- User can create image of hard disk and volumes for recovery

Why Stellar Phoenix Windows Data Recovery?

Stellar Phoenix Windows Data Recovery v6 is *ONE* solution to all data recovery requirements. The powerful scan engine of the software does a thorough scan of the selected storage device, shows a preview of files found during the scanning process and finally saves them to specified destination. It works even if you have deleted your files from the recycle bin or formatted your drive. A separate option to recover only photos from the storage media is also available. Listed below are some key features of the software.

Email Recovery *New*

Stellar Phoenix Windows Data Recovery software introduces a new feature of 'Email Recovery'. You can recover deleted/lost emails of Microsoft Outlook and Microsoft Outlook Express email programs. This feature gives you an option to save recovered emails in any one of the following three email file formats - PST, EML, and MSG.

Recover Deleted Files

Stellar Phoenix recovery software recovers deleted files from your computer's drives and/or volumes, or any attached storage device. Scan result shows all the files stored in the selected volume. You can also filter deleted files using 'Filter File List' option.

Search and Scan for Lost Volumes from your Hard Disk

Stellar Phoenix Windows Data Recovery software can also scan a hard disk to find lost and deleted volumes. After a lost volume is found, it is included in the list of volumes. You can then select it for data recovery. Please note that the found volume will be shown in the list of volumes only up till the time the software is running.

Remote Recovery *New*

Stellar Phoenix recovery software now provides you with an option to recover data from another computer over a network. This is the 'Remote Recovery' option and is helpful in recovering data remotely from a system.

CD/DVD Recovery

Stellar Phoenix Windows Data Recovery software can recover data from a damaged CD / DVD (any optical media disc) as well. The software supports data recovery from CD ROM, CD-RW,

DVD and DVD-RW discs. However, to recover data, system should be able to detect the optical disc.

Photo Recovery

Stellar Phoenix recovery software has a special option to recover only photos (and image files) from a volume or hard disk of a system. From the table of contents choose 'File Types' to view the complete list of files that the application can recover.

Tip: *For a high recovery rate, do not save new data in the drive or card that you have formatted, or from which you have deleted photos.*

RAID Recovery *New*

Stellar Phoenix Windows Data Recovery software's 'RAID Recovery' option can recover data from a damaged RAID 0, 5, and 6 configuration. The software works even when you don't remember the RAID parameters. The software will analyze the disk and show you a list of probable RAIDs, according to a combination of possible parameters. You can then choose one of the RAIDs for recovery.

Supports Recovery from External Storage Devices

Stellar Phoenix recovery software supports data recovery from most types of storage devices. Data recovery from Memory cards, USB storages devices, Flash Cards, SD Card (Mini SD, Micro SD, and SDHC Card), CF Card, Mini Disks, and all other Windows based hard drives are supported by the software. You just need to attach the external storage device to the system running the recovery software. When the device is recognized, it will be shown in the list of drive volumes, from where you can select it for recovery.

Recover User-defined File Types

A default list of supported file types is included in the software. Additionally, **Stellar Phoenix Windows Data Recovery** software allows you to add a new file type to the existing list of supported file types before scanning the volume for recovery.

Filtered List of Scanned Files

After scanning a selected storage device, **Stellar Phoenix** recovery software will show all recoverable files and folders in a 3-pane window. Preview window will show a tree containing all scanned folders, a list of items contained in the selected folder and a preview pane showing the preview of supported file types. You can also create a filtered tree that contains only the folders

having files according to your defined criteria. Once scanning is complete and the scanned data is populated as a tree, you also have an option to search for specific files in the scanned result.

Create Image/Clone

Using **Stellar Phoenix Windows Data Recovery** software, you can create a mirror image of a drive volume, hard drive, or a selected region of the drive and all the storage space of selected device is mapped into a file. This feature helps, when you are recovering data from a hard disk which has a lot of bad sectors. Recovery from an image file is faster and safer. You can clone a hard disk when you are aware that the actual hard disk is not in a healthy state and may fail if any recovery procedure is performed on it.

Drive Status

With **Stellar Phoenix** recovery software, you can see S.M.A.R.T. details of hard disks attached to a system. A scan process can be run on the selected drive to look for bad sectors. Using this option you can have an idea of the health of all the hard disks attached to the system, and their respective volumes. You can also monitor various hard disk attributes like is the S.M.A.R.T. feature of the hard disk is enabled or not, hard disk status, error rates, power cycle count, reallocated sector count, spin-up time etc..

Installation Procedure

Before installing **Stellar Phoenix Windows Data Recovery** software, please ensure that your system meets the following minimum system requirements:

Minimum System Requirements:

- **Processor : Pentium Processors**
- **RAM : 512 MB minimum**
- **Hard Disk : 50 MB**
- **Operating Systems : Windows 8 / 7 / Vista / XP**
- **MS Office: 2000/XP/2003/2007/2010 (For recovery of deleted Outlook emails)**
- **Outlook Express: 5.0 and 6.0 (For recovery of deleted Outlook Express mails)**

To install the software:

1. Double-click **StellarPhoenixWindowsDataRecovery-Technical.exe** file and click **Run** to start the **Setup Wizard**. **Setup - Stellar Phoenix Windows Data Recovery** dialog box is displayed.
2. Click **Next** to proceed. **License Agreement** is displayed.
3. Select '**I accept the agreement**' option in the **License Agreement** dialog box. Click **Next**. **Select Destination Location** dialog box is displayed.
4. Specify a destination in the text box or click **Browse** to select a destination. Click **Next**. **Select Start Menu folder** dialog box is displayed.
5. Specify a destination in the text box or click **Browse** to select a destination. Click **Next**. **Select Additional Tasks** dialog box is displayed.
6. Select the required check boxes for creating desktop icon and quick launch icon of the software. Click **Next**.
7. In the **Ready to Install** dialog box, verify the settings. Click **Back** to make any changes, or click **Install** to install the software.
8. After successful installation of the software, the "**Completing the Stellar Phoenix Windows Data Recovery -Technical Setup Wizard"** screen opens. Click **Finish**.

Ordering the Tool

How to order Stellar Phoenix Windows Data Recovery?

You can order **Stellar Phoenix Windows Data Recovery** software online. For pricing details and to place an order, visit: http://www.stellarinfo.com/disk-recovery/windows-raid-recovery/buy-now.php

Alternatively, if you have already downloaded and installed the demo version of the software, then click '*Buy Now*' in *About* dialog box, or click (*Buy*) button directly, in the tool bar.

Registering the Tool

***Tip**:*

- *If you download **Stellar Phoenix Windows Data Recovery** software from http://www.stellarinfo.com/disk-recovery/windows-raid-recovery/buy-now.php (i.e., ESD version), then for using the full functionality of the product, you must activate it using a Serial Number (which you will receive through an e-mail after purchasing the product).*
- *If you install **Stellar Phoenix Windows Data Recovery** software using a product installation CD (i.e., BOX version), then a hardware lock is mandatory for the functioning of the product. The hardware lock is available in the software kit.*

There are three ways of registering your copy of Stellar Phoenix recovery software. Choose any one of the following methods to register your product:

- **Using Internet**
- **Using E-mail**
- **Manual Registration**

To register the software:

Using Internet

The product can be registered over the internet after purchasing the serial number.

To register using internet:

1. Click (**About**) icon and then click **Register** button. Application will display **Stellar Phoenix** dialog box, click **Yes**.
2. Click **Yes** again. Software will check for internet connection. After successful connection, **Stellar Phoenix - Electronic Registration Wizard** appears. Click **Next**.

   Tip: *If internet connection is not available, you can register the software by sending e-mail.*
3. Click **Next** again. Type the *Serial number*, received through e-mail after purchasing the product, in the **Serial number** text box.
4. Click **Next**. The software will automatically communicate with registration server and will register the software. Click **Finish** to complete the registration process.

Using E-mail

To register using e-mail:

1. If the software is unable to communicate with the license server, while registering the software over internet, an error message will pop up. Click **OK**, for registering through e-mail.
2. **Registration Wizard** for sending authorization request will open.

3. Leave **Manually send e-mail** check box option unchecked and click **Next**. Type your e-mail address in the text box. Unlocking code will be sent to this email. Click **Next**.
4. E-mail address verification window will appear. Click **Yes**, if the e-mail address is correct. Software automatically launches default e-mail client, and sends an e-mail containing a unique site code with registration request to the registration server. If registration wizard fails to launch the default e-mail client, following message will appear.
5. Click **OK**. The **Error** dialog box opens. Click **OK** to start the process manually.
6. **Stellar Phoenix - Electronic Registration Wizard** window appears as shown.
6. Open the e-mail client such as, Outlook Express, Outlook, Eudora and create a new message. Place the cursor in the box labeled **To** and press **CTRL+V** to paste address. If it does not work, right-click on the **To** box and select **Paste** from the popup menu. The **To** box will contain the address. Click **Next**.
7. Place the cursor in the box labeled **Subject** in the same message window and paste (method same as above) the text. The **Subject** box will contain the text.
8. Click **Next**, do the same process as mentioned to paste the encrypted text content in the body of the message.
9. Click **Next** to finish the procedure and send mail.

   Tip: *Ensure that the content of the e-mail sent for automatic authorization has all the details mentioned above. If they are incorrect, server will reject the mail registration request.*
10. If the process is successful, following window will appear.

After processing the e-mail, registration server would send an e-mail containing unlocking code/site-key.

Manual Registration (Registration without internet)

To register without internet (receiving site key for manual activation):

1. Click (**About**) icon, click ***Register*** button. **Stellar Phoenix** dialog box opens.
2. Select **"I have the registration key"** check box and select **Online Activation**. Click **OK**, and then click **Yes**.
3. In the **Welcome to Stellar Phoenix - Electronic Software Registration** dialog box, click **Cancel**. In the **Stellar Phoenix** dialog box, click **Yes**.
4. In the **Manual Registration** screen, enter **123** in the **Enter Serial Number** text box. Click **Next**.
5. A text file will be saved on your desktop with the name **PHX_REG.txt**. Click **Finished**.
6. Send the **PHX_REG.txt** file to e-mail address - support@stellarinfo.com. You will get a serial number for manual activation.

To register manually after site key is received:

1. Click on (**About** icon) and then click **Register**. **Stellar Phoenix** dialog box opens.
2. Select **"I have the registration key"** check box and then select **Manual Activation** radio

button. Click **OK**.

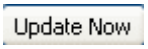
3. Enter site key, received through e-mail, in the **Enter Site Key** text box.
4. Click **Validate**.

Tip: *All Manual Registration request take maximum of one business day for completion.*

How to Update

Stellar Phoenix update wizard keeps your copy of the software up-to-date. The wizard runs the update process and automatically checks for updates. You need an active internet connection to check for updates using this option. You can check for both, latest minor and major updates available online. You can easily download the minor updates using the update wizard. However, you need to purchase any major version updates whenever they are available.

To start Stellar Phoenix Update Wizard:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. On the main screen, click icon. Under **General Settings** tab, click  button.
3. '**Stellar Phoenix Update Wizard**' window pops up. Click **Next** to proceed.
4. The wizard will start searching for the latest updates and if it finds any new updates, a window will pop up indicating the availability an update.
5. Click **Next** and the software will start downloading update files from the server. When the process is complete, the software will updated to the latest version.

Live Update may not happen due to following reasons:

- Internet connection failure
- Unable to download configuration files
- Unable to locate updated files or version
- Unable to locate executable file

Tip: *You need to purchase the major version updates of the software, whenever they are available.*

Stellar Support

Our Technical Support professionals will provide solutions for all your queries related to Stellar Products.

You can either **Call Us** or **Go Online** to our support section at http://stellarinfo.com/support/
For **price details** and to **place an order**, click http://www.stellarinfo.com/disk-recovery/windows-raid-recovery/buy-now.php
Chat Live with an **Online technician** at http://stellarinfo.com/support/
Search in our extensive **Knowledge Base** at http://www.stellarinfo.com/support/kb/
Submit enquiry at http://www.stellarinfo.com/support/enquiry.php
E-mail to Stellar Support at support@stellarinfo.com

Stellar Support Helpline

Monday to Friday [24 Hrs. a day]

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UK (Europe)	+44-203-026-5337
Australia & Asia Pacific	+61-280-149-899
Netherlands Pre & Post Sales Support	+31-208-111-188
Worldwide	+91-124-432-6777
Skype Id	stellarsupport
Email Orders	orders@stellarinfo.com

Starting the Software

To start Stellar Phoenix Windows Data Recovery software, use any one of the following methods:

Click **Start -> Programs -> Stellar Phoenix Windows Data Recovery - Technical -> Stellar Phoenix Windows Data Recovery - Technical**.

Or,

Click **Stellar Phoenix Windows Data Recovery - Technical** desktop icon.

Or,

Click **Stellar Phoenix Windows Data Recovery - Technical** in **Quick** launch tool bar.

Supported File Types

Stellar Phoenix Windows Data Recovery software supports preview of the below mentioned file types. This helps you to verify / preview file (s) before actually recovering them.

Acrobat Files

PDF

Archive Files

ARJ, ALZ, ZIP, RAR, CAB

Audio Video Files

RMI, WAV, MPG, WMV, WMA, MIDI, AU, MP3, AVI, ASF, MPEG, MID

Backup Files

BKF

Database Files

MDF, DBF, CSV

Image Files

BMP, WBMP, WMF, EMF, JPEG, JPG, JPE, J2K, JP2, JBG, J2C, JPC, PNG, MNG, JNG, JFIF, DIB, GIF, TIF, TIFF, TGA, PCX, PGX, PNM, PGM, PPM, RAS, X3F, PEF, NEF, KDC, K25, ERF, DNG

Internet files

HTM, HTML, SHTML, SHTM, MHTML, XHTML, XHT, PLG

Miscellaneous files

C, PRG, TEXT, CXX, HPP, XML, CC, HH, ASM, JS, PHP, ASP, LIC, DEF, CSPROJ, VCPROJ, SLN, CSS, DSP, DSW, CS, JAVA, INF, INI, LOG, CGI, JSP, REG, FRM, TXT, CPP, H, BAT

Office documents

DOC, DOT, DOCX, DOTX, XLS, XLT, XLW, XLB, XLSX, XLTX, PPT, PPS, POT, PPTX, PPSX, POTX, RTF

Tip: *You can use the context sensitive hex viewer to preview severely corrupt files and file types not supported by pre-viewer of the application.*

Main User Interface

Main user interface of **Stellar Phoenix Windows Data Recovery** software is quiet simple, easy to use and effective. It contains the tool bar, tabs, and '**Data Recovery**' options - '**Drive Recovery**', '**CD/DVD Recovery**', '**Photo Recovery**', '**Email Recovery**', and '**RAID Recovery**'. It also has user-friendly icons of '**Settings**', '**About**', and '**Help**' to quickly access the menus. '**Learn More**' links are also there for a quick view of the help manual. A pane is displayed when a volume or hard disk is selected in the application for any operation.

Main User Interface screen

Tabs and Buttons

Classic Tree

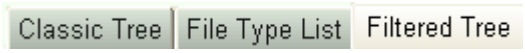
You can use this tab (on the Scan Results screen of the software) to view the scan result in form of Windows directory structure.

File Type List

You can use this tab (on the Scan Results screen of the software) to view the scan result categorized as file types.

Filtered Tree

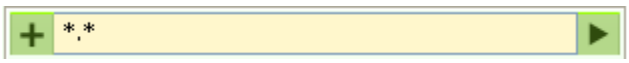
You can use this tab (on the Scan Results screen of the software) to view the scan result after filtering according to file mask.



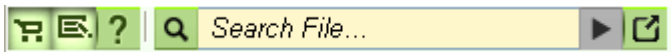
File Type List Tab

Advance Filter Option

You can use this button (on the Scan Results screen of the software) to apply file mask and generate 'Filtered Tree'.



Advance Filter Option



Advance Find Option

Some other general buttons/icons that you will encounter while using **Stellar Phoenix Windows Data Recovery** software are as follows:

Buy Now — Click the button to buy the software online.

View Log — Click this button to view log report.

Help — Click this button to open user help guide.

Find Now — Click to find files of specific file types.

Advance Find	Click to enter more advanced search criteria for files.
Recover	This button is provided on the Scan Results window. Click this to start recovery of files.
Back	Click this button to move to main screen from preview window.
About	This button is provided on the main screen. Click this to display information about the application.
Settings	This button is provided on the main screen. Click this button to configure general settings and file types settings.

Recover Data

Data Recovery

Stellar Phoenix Windows Data Recovery software provides you with different options to recover your data. All recovery methods are different as they apply different scanning processes.

To recover data, you need to first scan the hard disk or volume. There are four scanning options available to a user. They are '**Quick Recovery**', '**Deleted File Recovery**', '**Advanced Recovery**', and '**Raw Recovery**'. If you want to recover data using a previously scanned information file or an image file, **Stellar Phoenix** recovery software has an option of scanning them as well. After scanning, you can preview scanned files before recovering them. You can also filter, find, and select the files you want to recover. You can then recover and save the selected files to a destination folder of your choice.

You can also recover data from deleted and lost volumes of your computer's hard disk. **Scan Lost or Deleted Volumes**' option will list all volumes that have been deleted from your hard disk. You can perform Quick Recovery, Deleted File Recovery, Advanced Recovery or Raw Recovery on listed volumes.

With **Stellar Phoenix Windows Data Recovery 6.0** software, you can now recover your deleted or lost emails, contacts, attachments, journal etc. You can now recover data from Microsoft Outlook and Microsoft Outlook Express email programs.

Another feature of **Stellar Phoenix** recovery software is '**RAID Recovery**' option using which you can now recover data from your RAID disks as well. The software now supports data recovery from RAID levels 0 and 6.

A new, unique, and useful feature of the software is its '**Remote Recovery**' feature. This feature will help you to recover data from another computer over a network. So, in case of data loss you need not be present physically at the affected system's location. All you need is **Stellar Remote Recovery Agent** client installed on the affected computer and then you can connect remotely to the affected computer and start recovering your data.

- Scan Existing Volumes
- Search Lost or Deleted Volumes
- Scan CD/DVD for Recovery

- Photo Recovery
- Raw Recovery of Hard Disk
- Recover Deleted Emails
- RAID Recovery
- Preview the Scan Result
- Recovering Files
- Specify Destination to Save Recovered Data
- Find Files
- Filter File List - Set Mask
- Save Scan Information to Resume Later
- Recovery Options

Scan Existing Volumes

You can use 'Drive Recovery' option of the software to scan and recover data from your computer's hard disk, selected volumes of the hard disk, and from any removable storage media device. You can select only one volume at a time for scanning. Almost all the data of a volume can be found by performing recovery on a selected volume or removable media. **FAT**, **ExFAT**, and **NTFS** file systems are supported by the software.

To scan existing volumes:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Click **Drive Recovery** option from main user interface. Application will display **Select Volume to Recover Data** section.
3. In **Select Volume to Recover Data** section, all logical volumes that exist in the hard disk and all removable media devices, are listed along with volume details. Select the volume from which you want to recover data.
4. Click **Settings** in the tool bar to configure settings.
5. In the flying pane, click any one of the following recovery options:
    - **Quick Recovery** - This scan is fastest of all the scan processes and is highly recommended. This option will list both existing and deleted files.
    - **Deleted Recovery** - Choose this to scan for deleted files and folder of the volume.
    - **Advanced Recovery** - Choose this to recover data from a drive formatted from **NTFS** to **FAT** system, or vice versa.
    - **Raw Recovery** - This scan searches for files according to the file signatures and size. This scan is slower than **Quick Recovery** but gives better and more accurate results.

Scan existing volume screen

Search Lost or Deleted Volumes

Whether a volume of your system is recognized or not, depends on the partition table of your system. If a partition table is corrupt or has been deleted accidentally, then you will not be able to see the partition you need. A volume may also not be recognized if the file system or the hard disk itself is severely damaged.

Stellar Phoenix Windows Data Recovery software allows you to search and recover data from lost and deleted volumes of a hard disk. You should use this option to recover data from an accidentally deleted volume. This option will search and list all the deleted and lost volumes of the hard disk along with existing volumes.

To recover data from deleted volumes of a hard disk:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Click the **Click Here to Search Lost Volumes** drop down link in the main screen. **Select Hard Drive to Search Lost Volumes** section is displayed.
3. In the **Select Hard Drive to Search Lost Volumes** section, all physical drives connected to the computer are listed with details. Select the drive to be scanned for lost or deleted volumes.
4. In the flying pane, select scan type:
   - **Quick**: This scan is fast and recommended.
   - **Deep**: This scan is slower than Quick scan but gives better results.
5. Click **Search Lost Volume** button. A scan for lost or deleted volumes will be performed in the selected disk.

Search lost or deleted volumes screen

You can minimize the application window by clicking on the minimize button of the application.

6. Any 'lost volume' detected, will be listed in the **Select Volume to Recover Data** list section. Now, you can select the 'found lost volume' for scanning and recovery.

Scan CD/DVD for Recovery

A CD/DVD disk might become unreadable or corrupt due to a number of factors, such as heat, dust, scratches on the disk. **Stellar Phoenix Windows Data Recovery** software can recover data from damaged CD-ROM, CD-RW, DVD and DVD-RW discs. Stellar Phoenix Windows Data Recovery application supports recovery from corrupt optical media disks burnt on Windows, Linux, UNIX, and Macintosh systems. The application performs a scan on the selected optical media for recovery. You can select only one optical disc at a time for scanning.

To perform CD/DVD Recovery:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Data Recovery** tab, click **CD/DVD Recovery** button.
3. In the '**Select Optical Media to Recover**' section, all discs that are inserted in drives attached to computer will be listed. Select a disc.
4. In the flying pane, click **Scan Now** button.

A scan for files and folders will be performed on the selected optical media.

Scan CD/DVD for recovery screen

Tip:

- *You cannot save an empty folder. There should be at least one file in a selected folder in the 'Search Result' to recover and save the folder.*
- *Option to save scan information is not available for CD/DVD Recovery.*

Photo Recovery

You may lose your precious photographs and image files due to data loss or corruption. In such a scenario, you might just want to recover only your photos (or image files). That's why, **Stellar Phoenix Windows Data Recovery** has the Photo Recovery option, which scans your system for photos (or image files only). This option will scan selected volumes, removable storage devices, or external hard disks for photos and image files only. This option can scan and recover almost all image files from the selected volume, removable media, or hard disk. For this option, **FAT**, **ExFAT**, and **NTFS** file systems are supported by the application.

To scan volume or hard disk for photo recovery:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. On the main screen of the application, in the '**Data Recovery**' tab, click **Photo Recovery** option. The application will list all the volumes and the hard drives attached to the computer.
3. In the **Select Volume to Search Photos** section, all logical volumes of the hard disk and all the removable media are listed with details. In the **Select Hard Drive to Search Photos** section, all the attached hard drives are listed. Select the 'volume' or the 'hard drive' that is to be recovered.
4. In the flying pane, click **File Type** option to select, add, edit or remove a file type for scanning.
5. Click **Scan Now** button. A scan

Photo Recovery screen

for photo files will be performed
on the selected volume.

Tip: *Option to save scan information is not available for Photo Recovery.*

Raw Recovery

Raw Recovery option of **Stellar Phoenix** recovery software is based on 'file type based scanning' technique for the recovery of lost and deleted files and folders. You can scan a complete hard disk, a selected region of the hard disk, or a volume of the hard disk to recover data. File type gives information about a file and the name of its extension. You can add, edit, or remove file types as per your preferences.

For raw recovery of data from a hard disk:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Data Recovery** tab, click **Drive Recovery** button in the window.
3. Click '**Click Here to Search Lost Volumes**' drop down link in the main screen. **Select Hard Drive to Search Lost Volumes** section is displayed.
4. In '**Select Hard Drive to Search Lost Volumes**' section, all physical drives available are listed with their details. Select the drive to be scanned for raw recovery.
5. In the flying pane, click **File Type** to select, add, edit, or remove file types such that scanning process should include or exclude file types.
6. If you want to scan the entire hard disk, click **Raw Recovery**. If you want to scan selected region of the hard disk then click **Select Range**. In the '**Select Specified Region**' screen, drag sliders to define starting and ending sectors. Click **OK**, and then click **Raw Recovery**. Scan will be performed on the selected region only.
7. Software will scan the selected source and all files found will be listed.

For raw recovery of data from a volume:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Data Recovery** tab, click **Drive Recovery** button in the window.
3. In '**Select Volume to Recover Data**' section, all volumes of the computer are listed along with their details. Select the volume, you want to scan for raw recovery.
4. In the flying pane, click **File Type** to select, add, edit, or remove file types such that scanning process should include or exclude file types.
5. Software will scan the selected source and all files found will be listed.

Recover Emails

Recover Deleted Emails

'**Email Recovery**' option of **Stellar Phoenix** recovery software will help you to recover deleted / lost emails supported by Microsoft Outlook and Microsoft Outlook Express. You will need to specify the source file (in PST format) to recover deleted emails. Microsoft Outlook Express, on the other hand, saves email in DBX file format. Here also, you will need to specify the source file (in DBX format) to recover deleted emails.

There are two options using which you can recover your emails. They are listed below:

- **Recover Outlook Emails**
- **Recover Outlook Express Emails**

Recover MS Outlook Email

Recover Outlook Emails

You can use the '**Email Recovery**' option of **Stellar Phoenix Windows Data Recovery** software to recover deleted emails supported by Outlook email program. Outlook saves all its email data in a PST file.

You will need to specify the location of the source PST file from which you want to recover emails. If you know location of the source PST file, then you can browse to it and select it. Otherwise, you can also search for the PST file.

In addition, you can also save the recovered data as either a PST or EML or as MSG file.

In this section, you will get to know, how to...

- **Find PST File**
- **Recover PST File**
- **Specify Destination to Save Recovered File**

Find PST File

To recover mails from a corrupt PST file, you need first provide the location of the file to the software. However, if you do not know the location of the PST file, you can search it by using '**Find PST...**' option. You can search PST files in volumes, folders and sub folders. However, you can select only one volume at a time to search for PST files.

To search PST file in volumes:

1. Click **Find PST...**.
2. In '**Search Option**' screen, click **Look in** list box to select volume. Select the required volume. Click **Start**.
3. In '**Search Option**' screen, under **Search Results** box, all PST files that are found in the selected volume will be shown. Click a file to select, and then click **OK**.

To search PST file in folders:

1. Click **Find PST...**.
2. In '**Search Option**' screen, click **Search in Folders**. In the **Browse for Folder** dialog box, select a folder, click **OK**, and then click **Start**. In addition, if you want to search sub folders in that folder, check **Search Sub Folders** check box.
3. In '**Search Option**' screen, all PST files that are found in the selected folder will be shown. Click a file to select, and then click **OK**.

Recover PST File

In order to recover deleted emails from Microsoft Outlook e-mail program, you need to follow the steps listed below.

To recover PST files:

1. Open **Windows Data Recovery**. Click **Email Recovery** and then select **Microsoft Outlook** option.
2. On '**Email Recovery**' screen, click **Select PST...** to specify the location of the PST file. In **Open** dialog box, locate and specify the PST file, click **Open**. You can also search the required PST file.
3. Click **Start Recovery** button to start recovery. After scanning, a preview of deleted mails will be available.
4. Click **Save** button to save scanned data. In **Save As** section, select **Save as PST, Save as EML,** or **Save as MSG** to save the recovered data as PST file, or as EML file, or as MSG file respectively.
5. Click **OK** to save data. By default, the recovered PST file will be saved at the same location where the source file is stored. However, you can change the location of recovered PST file by specifying destination.
6. Click **Save**. The file will be saved at the specified location. In addition, '**PST Recovery**' screen will show all the folders and emails of the recovered PST file.

Tip:

- *You can only select one PST file to recover.*
- *Microsoft Outlook should be closed before selecting the PST file.*
- *You will need to import the recovered PST file to Microsoft Outlook to use it.*

Specify Destination to Save Recovered File

Recovered PST files are saved, by default, at the same location where the source file is located. However, you can change the destination of recovered PST file as per your preference.

To change destination:

1. After scanning, click on **Save** to save the scanned files.
2. In '**Save As**' section, select the file format (as PST, DBX, or MSG) in which you want to save the scanned files.
3. In '**Destination Path**' section, browse to location of your choice to save the scanned data. Click **OK**.

Recover MS Outlook Express Email

Recover Outlook Express Emails

You can use 'Email Recovery' option of **Stellar Phoenix Windows Data Recovery** software to recover deleted emails from Microsoft Outlook Express. Microsoft Outlook Express email program saves all its email data in DBX file format.

You will need to specify the location of the DBX file to recover emails. If you know location of the DBX file, then you can directly browse to it and select it. Otherwise, you can also search for the DBX file.

In this section, you will get to know, how to...

- **Find DBX File**
- **Recover DBX File**
- **Specify Destination to Save Recovered File**

Find DBX File

You can search for DBX files by using '**Find DBX...**' option. You can search the DBX files in volumes, folders, and sub folders. However, you can select only one volume at a time to search for the DBX files.

To search DBX file in volumes:

1. Click **Find DBX...**.
2.
3. On '**Search Option**' screen, click **Look in** list box to select volume. Select the required volume and click **Start**.
4. On '**Search Option**' screen, under **Search Results** box, all DBX files found in the selected volume are shown. Click on a file to select it, and then click **OK**.

To search DBX file in folders:

1. Click **Find DBX...**.
2. On '**Search Option**' screen, click **Search in Folders**. In the **Browse for Folder** dialog box, select a folder, click **OK**, and then click **Start**. In addition, if you want to search sub folders in that folder, check **Search Sub Folders** check box.
3. On '**Search Option**' screen, all DBX files found in the selected folder are listed. Click on a file to select it, and then click **OK**.

Recover DBX File

In order to recover emails supported by Microsoft Outlook Express email program, you will need to recover the DBX file. After recovering the DBX file, you will need to save it a location of your choice.

To recover DBX file:

1. Run **Stellar Phoenix Windows Data Recovery** software. Click '**Email Recovery**' option, and then select '**Outlook Express**' option.
2. On '**Email Recovery**' screen, click on **Select DBX** button. In **Open** dialog box, locate and select the DBX file and then click **Open**. You can also specify a folder to search for the DBX file. Click **Select Folder**, in '**Browse for Folder**' dialog box, locate, and select the required folder, click **OK**. You can also search the required DBX file.
3. Click **Start Recovery** button to begin recovery. After scanning, a preview of deleted mails will be available.
4. Click **Save** to save the scanned data. In '**Save As**' section, select **Save as EML** or **Save as DBX** to save the recovered data in EML or DBX file format respectively.
5. Click **OK** to save data. By default, the recovered DBX file will be saved at the same location where the source file is stored. However, you can change the location of recovered DBX file by browsing to a preferred location of your choice.

Tip:

- *You can only select one DBX file at a time to recover.*
- *Microsoft Outlook Express should be closed before opening the recovered DBX file.*

Specify Destination to Save Recovered File

To specify destination to save DBX file, follow the steps listed below.

To save DBX file:

1. After scanning, click on **Save** to save the scanned files.
2. In '**Save As**' section, select the file format in which you want to save the scanned files.
3. In '**Path**' section, browse to a location of your choice to save the scanned data. Click **OK**.

RAID Recovery

RAID, or Redundant Array of Independent Disks is a storage device made up of multiple disks. A RAID, connected to system, is shown as one logical disk unit in the operating system. RAID is a way of storing the same data at multiple places (hard disks) to improve data access, data safety, performance, fault tolerance, and to increase the mean time between failures.

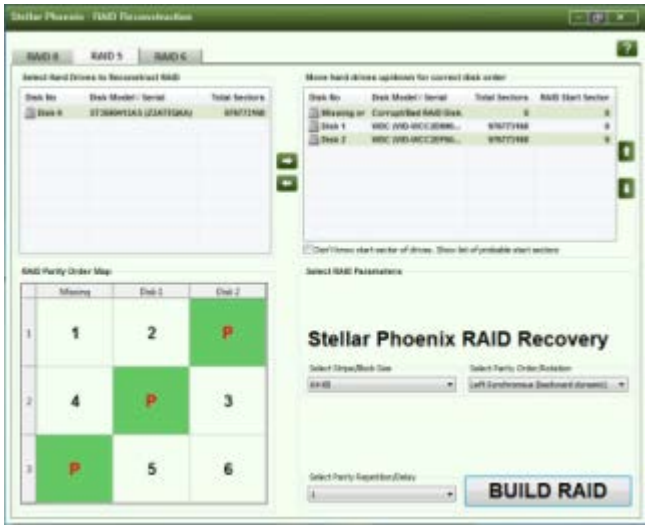
Stellar Phoenix Windows Data Recovery software supports data recovery from three RAID levels - **RAID 0**, **RAID 5**, and **RAID 6**.

Stellar Phoenix Main User Interface screen

RAID 0 is the first level of RAID technology that uses block-level striping without parity or mirroring and has no (or zero) redundancy. RAID 0 improves performance and storage but has no fault tolerance. Any drive failure will lead to total data loss and the chances of failure increases with an increase in the number of hard disks.

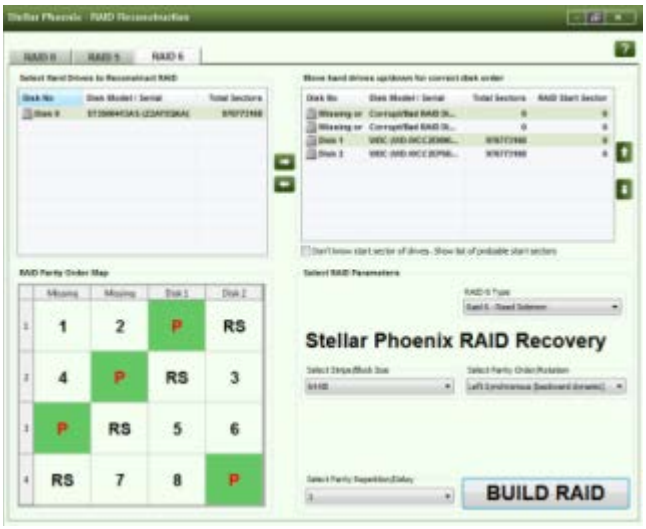
Stellar Phoenix RAID Reconstruction - RAID 0 screen

RAID 5 is another level of RAID technology, which uses distributed parity and distributed data technique. This level requires at least three hard disks and a single disk failure does not lead to total data loss.



Stellar Phoenix RAID Reconstruction - RAID 5 screen

RAID 6 level uses block-level striping with double distributed parity. This level requires a minimum of four disks and it can tolerate up to two hard disk failures. This RAID level technology is intended for high-availability systems and makes larger RAID groups more practical.



Stellar Phoenix RAID Reconstruction - RAID 6 screen

In this section, you will learn, how to...

- **Build RAID**
- **Scan RAID Volumes**
- **Search Lost or Deleted RAID Volumes**
- **Raw Recovery of RAID**

Build RAID When Parameters are Known

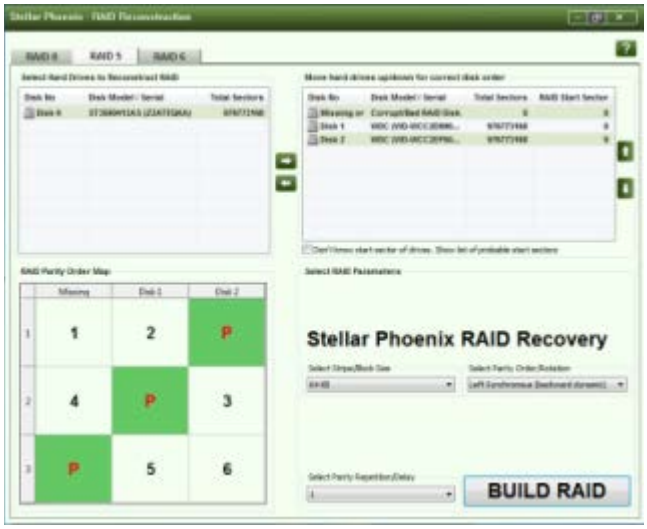
To build RAID using **Stellar Phoenix Windows Data Recovery** software, you must preferably know the disk order, start sector of RAID in each disk, stripe/block size, parity repetition/delay, and parity order. Multiple possible RAIDs are constructed according to the combination of parameter options that you provide. User has to choose from any one of them. After the RAID is rebuilt, you can perform scanning and recovery operations on the RAID volumes.

To build RAID when parameters are known:

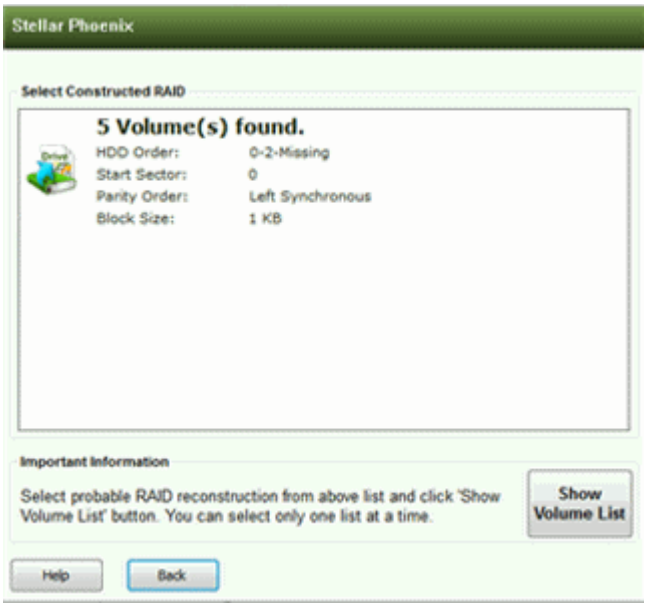
1. Run **Stellar Phoenix Windows Data Recovery** software.

2. Click '**RAID Recovery**' button in the window. **Stellar Phoenix - RAID Reconstruction** window is displayed. All the RAID drives and a missing drive is shown in '**Select Hard Drives to Reconstruct RAID**' section.

3. In '**Select Hard Drives to Reconstruct RAID**' section, click on a RAID hard disk and then click . Repeat this till all the RAID disks are shown in the **Move hard drives up/down for correct disk order** section.

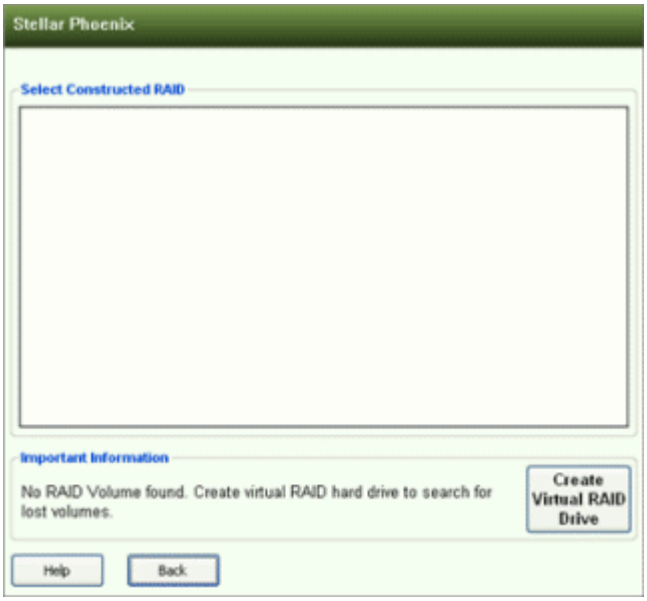


RAID Reconstruction main screen


Stellar Phoenix
Select Constructed RAID
5 Volume(s) found.
HDD Order: 0-2-Missing
Start Sector: 0
Parity Order: Left Synchronous
Block Size: 1 KB
Important Information
Select probable RAID reconstruction from above list and click 'Show Volume List' button. You can select only one list at a time.
Show Volume List
Help
Back

Select Constructed RAID screen

4. In '**Move hard drives up/down for correct disk order**' section, click on a hard disk and then click or to change its order. Repeat this till all the drives are in correct order. Click the block under RAID start sector to type the starting sector.



Create Virtual RAID Drive screen

5. In '**Select Stripe/block size**' drop-down, select a block size.

6. In '**Select Parity Order/Rotation**' drop-down, select a rotation method.

7. In '**Select Parity Repetition/Delay**' drop-down, select a delay amount.

Reconstruct RAID/Load Constructed RAID screen

8. Click BUILD RAID. A single RAID is shown. Select it and click **Show Volume List** button to continue recovery. The found volume and the RAID are shown under the RAID

Recovery button on the main screen.

9. If Stellar Phoenix Windows Data Recovery is not able to build a RAID and no volume is found, a **Create Virtual Drive** option is shown. You can perform raw recovery or search for lost volumes in it. Click it to create virtual drive. Virtual drive is shown in '**Select Hard Drive to Search Lost volume**' in RAID, under the RAID Recovery button on the main screen.

10. Click **Reconstruct RAID** button to perform construction from once again, or click **Load Constructed RAID** button to select another constructed RAID from the list of probable RAIDs.

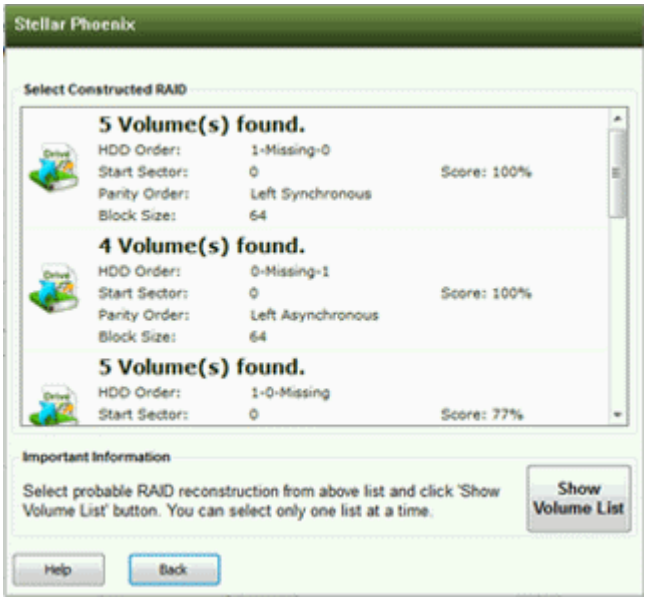
Build RAID When Parameters are Unknown

To build RAID using **Stellar Phoenix Windows Data Recovery** software, user must preferably know the disk order, start sector of RAID in each disk, stripe/block size, parity repetition/delay, and parity order. If any of the RAID parameters are not known, user can select possible options provided in the recovery window. Multiple possible RAIDs are constructed according to the combination of parameter options provided by the user. User can choose one of them. After the RAID is rebuilt, user can perform scan and recovery on the RAID volumes.

To build RAID when parameters are unknown:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Click **RAID Recovery** button in the window. **Stellar Phoenix - RAID Reconstruction** window is displayed.
3. In '**Select Hard Drives to Reconstruct RAID**' section, click on a RAID hard disk and then click . Repeat this till all the RAID disks are shown in the '**Move hard drives up/down for correct disk order**' section.
4. In '**Move hard drives up/down for correct disk order**' section, click on a hard disk and then click or to change its order. Repeat this till all the drives are in correct order.

RAID Reconstruction main screen



Select Constructed RAID screen

Click the block under RAID start sector to type the starting sector.

5. If you don't know the starting sectors, check '**Don't know start sector of drives**. **Show list of probable start sectors**'. In the Select one or more probable start sectors section, select all the possible start sectors. You can also use **Add Sector** button to add a start sector, if it is not listed.
6. In '**Select Stripe/block size**' drop-down, select a block size or select '**Don't know**' option to choose probable block sizes from a list.
7. If you have selected '**Don't know**' option, a '**Select one or more block sizes**:' list is displayed. Select the possible block sizes.
8. In '**Select Parity Order/Rotation**' drop-down, select a rotation method, or select '**Don't know**' option to choose probable rotation

Reconstruct RAID/Load Constructed RAID screen

methods from a list.

9. In '**Select Parity Repetition/Delay**' drop-down, select a delay amount.
10. Click

. Recovered RAID is shown.
11. If you have used '**Don't know**' option for one or more of the RAID parameters, a list of probable RAIDs are constructed and shown in a list. RAID information is also shown. Select one of the RAIDs according to its score and click **Show Volume List** button.
12. RAID volumes are shown on the main screen, under the **Raid Recovery** button.
13. Click **Reconstruct RAID** button to perform construction from once again, or click **Load Constructed RAID** button to select another constructed RAID from the list of probable RAIDs.

Scan RAID Volumes

After you have build RAID, RAID and all RAID volumes will be displayed in the '**RAID Recovery**' screen. You have to scan a RAID volume to recover data in that volume. You can select only one volume at a time for scanning. Almost all the data in the files and folders will be found by performing recovery on the selected volume or removable media. FAT, NTFS and ExFAT file systems are supported by the software.

To scan RAID volumes:

1. After you build RAID, RAID volumes are displayed in the '**Select Volume to Recover RAID Data**' section of **Raid Recovery**.
2. Select the volume to be recovered.
3. Click **Settings** in application tool bar and configure the settings.
4. In the flying pane, click a recovery option:
   - **Quick Recovery**: This scan is fast and recommended.
   - **Deleted Recovery**: Choose this to scan for deleted files.
   - **Advanced Recovery**: Choose this to recover data from a drive formatted from NTFS to FAT system, or vice versa.
   - **Raw Recovery**: Scan is done for files according to file signatures. This scan is slower than Quick Recovery but gives better results.

Reconstruct RAID/Load Constructed RAID screen

Tip: *Option to save scan information is not available for RAID Recovery.*

Search Lost or Deleted RAID Volumes

Stellar Phoenix Windows Data Recovery software allows you to search and recover data from deleted volumes of a RAID. If you have accidentally deleted volumes from your RAID and want to recover data from those deleted volumes then you should use this option. This option searches and lists all volumes that are deleted from a RAID disk.

To recover data from deleted volumes of a RAID:

1. After you build a RAID, RAID is displayed in the '**Select Hard Drive to Search Lost Volumes in RAID**' section of **Raid Recovery**.
2. Select the RAID to scan for lost or deleted volumes.
3. In the flying pane, select scan type:
    - **Quick**: This scan is fast and recommended.
    - **Deep**: This scan is slower than Quick scan but gives better results.
4. Click **Search Lost Volume** button. A scan for lost or deleted volumes will be performed in the selected RAID. You can minimize the application window by clicking on the minimize button in the application.
5. Any found 'lost volume' will be listed in '**Select Volume to Recover RAID Data**' section. Now, you can select the 'found lost volume' for scanning and recovery.

Reconstruct RAID/Load Constructed RAID screen

Raw Recovery of RAID

Using Raw Recovery, you can recover data from a selected region of RAID. '**Raw Recovery**' is a scan method based on file types. File type gives information about a file and the name of its extension. You can add, edit, or remove file types as per to your preferences.

For raw recovery of data from a hard disk:

1. After you build RAID, RAID is displayed in '**Select Hard Drive to Search Lost Volumes in RAID**' section of **Raid Recovery**.
2. Select RAID to scan for Raw recovery.
3. In the flying pane, click **File Type**, to select, add, edit or remove file types, such that scanning process should include or exclude file types.
4. If you want to scan the entire RAID, click **Raw Recovery**. If you want to scan selected region of the RAID then click **Select Range**. In the '**Select Specified Region**' screen, drag sliders to define starting and ending sectors. Click **OK**, and then click **Raw Recovery**. Scan will be performed on the selected region only.
5. Scan will be performed on the selected source and all files that are found in the selected RAID will be shown in a three-pane preview window.

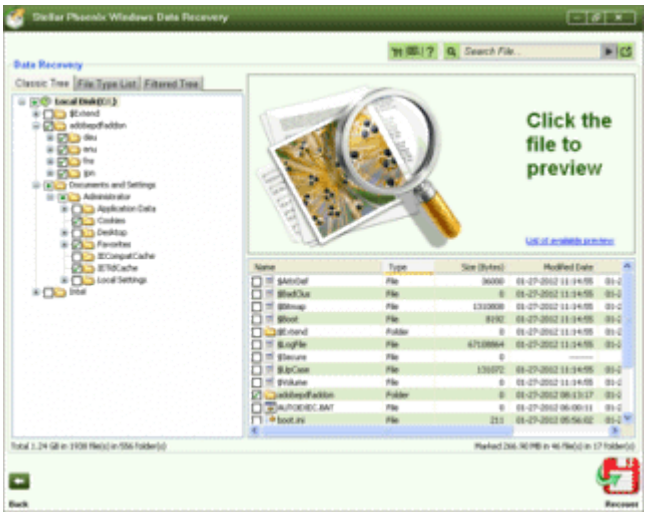
Preview Scan Result

Stellar Phoenix Windows Data Recovery software shows the preview of all files and folders present in the scanned physical volume or removable media in a three pane structure. The three panes are the left, top-right, and the bottom-right pane.

- In the left-pane, a tree structure according to folders is created.
- Top right-pane shows preview of file that are supported by the software.
- In bottom-right pane, all files and folders that are in the selected folder in the tree view are listed.

To preview a scanned file:

1. Click a tab (**Classic Tree**, **File Type List**, or **Filtered Tree**) in the left pane.
   - **Classic Tree -** In this view, files/folders are listed as they are found in the hard disk. To see **Classic Tree** preview, click **Classic Tree** tab in preview window.
   - **File Type List** (not available in Photo Recovery and Raw Recovery) - In this view, files/folders are listed according to their type such as Document, Audio, Video, Archive, etc. To see **File Type List** preview, click '**File Type List**' tree tab in preview window.
   - **Filtered Tree** (not available in Photo Recovery) - You can see list of file type according to your preference in this preview. Click **Filtered Tree** tab to view the filtered list.



Preview Scan Result screen

2. Click a folder in the left pane tree structure to list files of that folder in the bottom right pane.
3. Double-click the folder to move deeper into the folder.
4. Click a file in the bottom-right pane to preview the file. Only supported files can be

previewed.

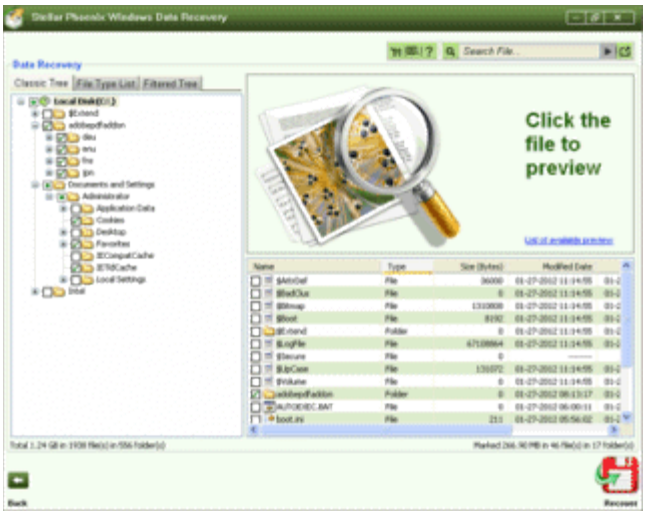
5. To view files in binary format, right-click the file and select **Show as Hex**.
6. You can also rename the file before recovery. Right-click the file and select **Rename** to rename it.

Recovering Files

Stellar Phoenix Windows Data Recovery can recover all files of supported file formats. You can save files and folders listed in preview at preferred location. **Photo Recovery** option of the application allows recovery of images only.

To recover lost files:

1. Select the files and folders you want to recover. You can recover all files or individual files at preferred location. In addition, you can narrow the search result with the **Filtered Tree** option (not available in **Photo Recovery** option). Or, you can select only specific type of files to view or recover.



Preview Scan Result screen

- **To select all files**
  - Check the root node and then click **Recover**.
- **To select individual files**
  - Click a folder in the left pane to view files stored in it.
  - Check the files in the file list pane, and then click **Recover**.
- **To recover individual file**
  - Right-Click the file in the file-list and select **Recover** option.
- **To find files according to a search criteria:**
  - Use the Set File Mask option in **Filtered Tree** (not available in Photo Recovery), or Find Files option.
- **To recover selected folders and files and folders included in them:**
  - Check the folder in the left pane, and then click **Recover**.
- **To recover only files of specific category:**

- Click **File Type List** tab (not available in Photo Recovery). Check the **File Types** category folders as per your choice. The selected '**file types folders**' files will be listed in the file list pane. You can select the individual files in the list.
- You can view the log report of the executed process for analysis.
- Click **Recover**).

2. A **Select Destination** dialog box is displayed. Specify the destination and choose the options as per requirement.
3. Click **OK** to start save process. If the destination files have same names then you can overwrite, rename or skip. Choose as per the case.

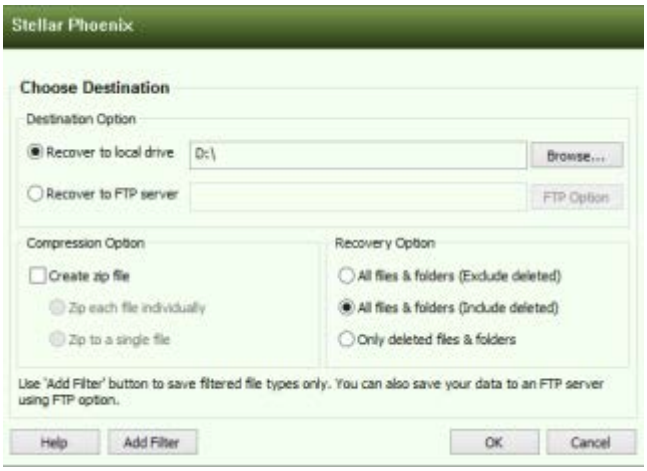
The selected files will be saved at the specified location. Navigate to the destination to view files.

Specify Destination to Save Recovered Data

You can save recovered files either to local hard disk or to a File Transfer Protocol (FTP) server. You can also apply compression option to recovered files.

To save recovered files to local hard disk:

Select **Recover** to local drive option. Click **Browse** to specify the location where files should be saved. Click **OK** twice.



Choose Destination to Save Recovered Data screen

To save recovered files to FTP server:

1. Select **Recover to FTP server** option. Click **FTP** Option.
2. Provide the required values such as **Server Name/IP Address**, **Port No.**, **Username** and **Password**.
3. Click **Browse**, select a folder and click **OK** three times.

Applying Compression:

You can save recovered files in compressed zip folders. However, you can only apply compression if recovered files are saving to local disk drive.

To apply compression option:

Check the Create zip file check box. Select:

- **Zip each file individually**
  This option saves all selected file in their corresponding zip folder.
- **Zip to a single file**
  This option saves all recovered files in a single zip folder.

Apply Recovery Option

This section is shown when all the files and folders are selected for recovery. You can choose to exclude or include the deleted files while recovery.

To apply recovery option, select:

- **All files & folders (Exclude deleted)**

Choose this option to exclude the deleted files while recovering the selected files and folders.

- **All files & folders (Include deleted)**

  Choose this option to include the deleted files and folders while recovering the selected files and folders.

- **Only deleted files & folders**

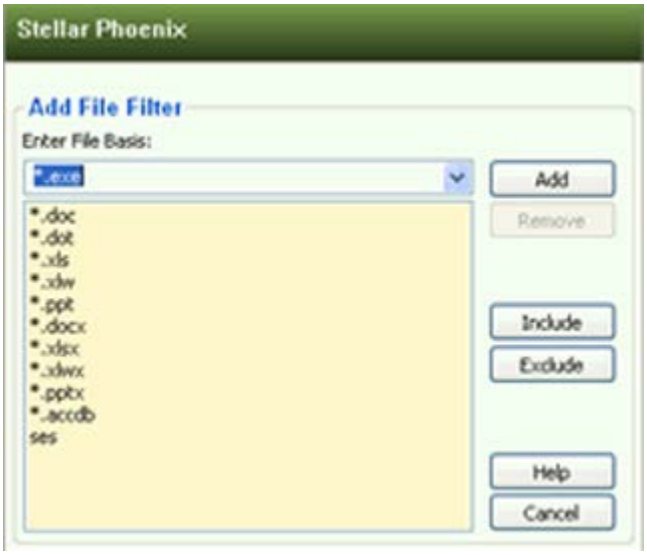
  Choose this option to recover only deleted files and folders.

Add Filter

You can add a filter according to your requirement.

To apply add filter option:

1. Click **Add Filter** in **Choose Destination** window.
   - Select a group of file types from the **Enter File Basis**: drop down box.
   - Type a file extension in the **Enter File Basis**: drop down box and click **Add** button, to include it in the list.
2. Click **Include** to include the listed file types on recovery.
3. Click **Exclude** to leave the listed file types on recovery.



Add File Filter screen

Find Files

You can search files in the trees in the left-pane shown after scanning process. If you want to view or recover specific files from the scan result you can use **Find** option. This provides you various options for searching required files.

To search files:

- In '**Search File**' box, type few or all characters of file name(s) or file type(s) separated by semi colon (**;**). Click the **Find** button.
- Click **Search Options** button. In '**Find**' screen, type the few or all characters of file name (s) or file type (s) separated by semi colon (**;**) in the **Enter file type(s) delimited by semi-colons** text box. Check the **Deleted File, Match Case,** and **Existing Files** options as per requirement. Click **Search Now**.

The first file matching the criteria is highlighted in the file list. Press **F3** or again click on the **Find**) button to move to next file matching the criteria.

Advanced Options

Advanced option in **Find** dialog box enables you to search files according to the more advance options like date criteria and size of file.

- **Size:** You can define size of file. You have two option for size, either the file should not exceed the defined size or should have at least the defined size.

- **Date:** Date search provides you three options- Last Access Date, Last Modified Date and Created Date for searching required file. Select **Last Access Date** to search file according to the last accessed date. Select **Last Modified Date** to search file according to the last modified date. Select **Created Date** to search file according to the creation date

Find Files dialog box

of file. In addition, you can specify number of days, number of months or time interval for any of the selected date option.

To search files by using advanced options:

1. Click **Search Options** button. In '**Find**' screen, click **Advanced**.
2. Check and specify either or both of the **Size** and **Date** options.
3. Click **Search Now**. The file, if found, will be highlighted in the file list. Press **F3** button to move to next file matching the search criteria.

Filter File List - Set Mask

Filter File List is used to generate **Filtered Tree** view in the left pane. **Filter File List** feature provides you with many options for creating file masks to filter the scan result.

To create Filtered tree:

1. In '**Search Result**' window, click on **Filtered Tree** tab in the left pane.
2. In '**Filter**' option, type the file type(s) separated by semi colon (**;**). Click the **Filter** button.

Or,

2. Use **Set File Mask** option dialog box to filter files according to the more advance options like date criteria and size of file. Click button in the '**Filter**' box.

File Mask options

- In the **Set File Mask** screen, type the file type(s) separated by semi colon (**;**) in the **File of type(s)** text box. Check the **Deleted File** and **Existing Files** options as per requirement.
- **Size:** You can define size limit of filtered files. Define the lower limit of size in **Size from (KB)** text box. Select **Upto** check box if you want to define the upper limit of file size and then specify the size in KB.
- **Date:** Date search provides you three options- **Last Access Date**, **Last Modified Date** or **Created Date** for searching required file. Select **Last Access Date** to search file according to the last accessed date. Select **Last Modified Date** to search file according

to the last modified date. Select **Created Date** to search file according to the creation date of file. In addition, you can specify number of days, number of months or time interval for any of the selected date option.

3. Click **OK** to generate the **Filtered Tree**.

Save Scan Information to Resume Later

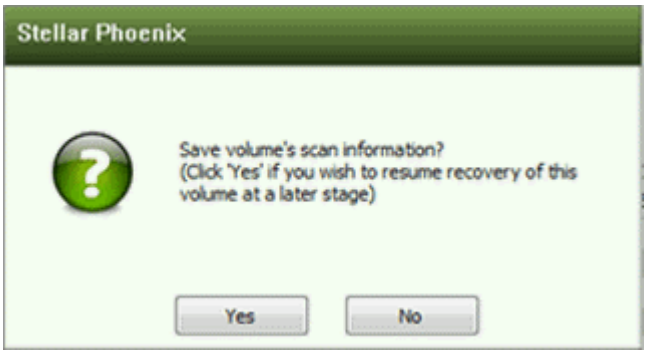
You can save the scan result of any scanning process as an image (IMG) file. You can save the scan result as an image file either of a complete or an aborted recovery process. However, the aborted scan would contain limited information. Hence, you should perform a complete scan, and then save the scan result.

Saving scan information saves your time. Since, you will not need to scan the same drive again. You can resume recovery by selecting the image file.

To save scan information:

1. In '**Scan Results**' window. Click either **Back** or **Close** button.
2. You will also be prompted to save scan information. Click **Yes**.
3. In '**Save scan information**' dialog box, browse to the location where you want to save the image file. Type the name of the image file in the **File name** text box. Click **Save**.

Scan Information file will be saved with IMG extension.


Stellar Phoenix
Save volume's scan information?
(Click 'Yes' if you wish to resume recovery of this volume at a later stage)
Yes
No

Save Scan Information file prompt

Recovery Options

Stellar Phoenix Windows Data Recovery software provides you with different options to recover data from your storage devices. '**Quick Recovery**', '**Deleted File Recovery**', '**Advanced Recovery**', and '**Raw Recovery**' are the four recovery methods available in this software. All methods are different as they apply different scanning processes.

- **Quick Recovery**
- **Deleted Recovery**
- **Advanced Recovery**
- **Raw Recovery**

Quick Recovery

Quick Recovery is the fastest and the easiest option using which you can recover data from a storage media. It can easily recover data accidently deleted or erased data.

'Quick Recovery' option of **Stellar Phoenix Windows Data Recovery** software can perform a quick scan on selected existing volumes, lost volumes, and on removable media. You can select only one volume at a time for quick scan. This scan method is fast and efficient. You will find almost all data by performing a quick recovery on selected volume or removable media. You can also load an image file to perform quick recovery.

Deleted Recovery

You can recover files that are deleted from a volume or removable media by using deleted file recovery process. The scan result lists only files that are deleted from the selected drive.

Advanced Recovery

You can recover data from a formatted volume or removable media by using '**Advanced Recovery**' option of **Windows Data Recovery**. If a volume or removable media is formatted and all data is lost from that drive, you can recover that data performing this type of recovery.

In addition, you can scan volume either as **FAT**, **NTFS**, or **ExFAT**. For example, before formatting, the file system of the volume was **FAT**. Then, you formatted the volume and created a new **NTFS** volume in its place. You can scan the new volume as **FAT** such that all files will be found during scanning process. Also, if before formatting the volume the file system was **FAT** and you selected scanning as **NTFS** then scanning process can still find data from the previous volume.

Raw Recovery

Raw Recovery allows you to recover data from hard disk, pen drive or volumes of a hard disk. It does a comprehensive scan of the volume to recover each and every bit of lost or deleted data. It searches for lost files on the basis of file signature. This recovery option recovers everything that is found in the selected source. This option is especially helpful in case of severely corrupted volume. You can select a source or define a region for scanning process. However, you cannot select region from a volume while performing **Raw Recovery** on the volume.

This option can recover data from a media, irrespective of its file system. This option is especially helpful when your system is not recognizing its volumes.

Also, a long list of file types is provided in **Raw Recovery** file type option. You can add file type, if the required file type is not listed in the file type list.

Resume Recovery

You can use the **Resume Recovery** option of **Stellar Phoenix Windows Data Recovery** software to restart data recovery. You can resume recovery by either:

- **Using Scan Information File**
- **Using Hard Disk or Volume Image**

Both, the scan information file and image of a drive are saved as an image file (IMG). You can use an image file to restart recovery at any time.

You should save the scan information and image file of a drive at different locations with proper naming such that you can easily retrieve the required file for restarting recovery.

Recover using Scan Information File

Scan information file contains information of a scanning process. Scan information file is saved as an image file (IMG). You can save scan information file during any complete or incomplete recovery process. Image file can be used to restart recovery later. For example, you saved image file of a scanning process and recovered only some files from that scan result. Later, you want to recover some more files from the same drive.

You can use the saved image file to restart recovery. Using a scan information file saves time, since scanning of each file does not take place. All files and folders shown after scan process will be shown on loading the image file created for that scan. In addition, if you have performed scanning process but not saved any files then you can use the image file to restart recovery at some other time.

You should remember the recovery process for which the image file was created. This is because you cannot perform a different recovery process by using a different image file. For example, an image file of quick recovery process restarts quick recovery not deleted file recovery.

To resume recovery by using scan information file:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Click **Recovery from Image** tab. Select the image file from the list, or click **Browse**.
3. In '**Open**' dialog box, locate and select the scan information, and then click **Open**.
4. Click **Scan Now**, all files and folders will be listed. Select files to recover them.

Resuming recovery using image files

Recover using Hard Disk or Volume Image

Drive image is mirror image of a hard disk, pen drive, volume, or selected region of the listed source. Image file is saved as an IMG file. When you create an image, scanning process is not performed; instead a copy of the selected source is saved as IMG file. You can start recovery either after completion of drive imaging or at later time by using '**Recovery from Image**' option.

To restart recovery by using hard disk or volume image:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Click **Recovery from Image** tab. Select the image file from the list, or click **Browse**.
3. In **Open** dialog box, locate and select the image file of a hard disk or volumes, and then click **Open**.
4. A '**Select Volume to Recover Data**' section will become visible. Volumes stored in the image file will be listed. Select the required volume.
5. In the flying pane, choose any one of the following recovery options:
    - **Quick Recovery**: This scan is fast and recommended.
    - **Deleted Recovery**: Choose this to scan for deleted files.
    - **Advanced Recovery**: Choose this to recover data from a drive formatted from **NTFS** to **FAT** system, or vice versa.
    - **Raw Recovery**: This scan is based on recovery using

Resuming recovery using image files

file signatures. This scan is slower than Quick Recovery but gives better results.

Tip: *It is recommended that you save 'scan information file' and 'hard disk image' at different locations with proper name such that you can easily retrieve the required image file.*

Create Image or Clone of a Hard Disk

Stellar Phoenix Windows Data Recovery software allows you to create an image file of a hard disk or volume. Image of a hard disk or volume is saved as an IMG file. You can use this IMG file to restart recovery at any time. You can create image of an entire hard disk, volume, or selected region of hard disk or volume.

Mirror image (clone) of entire hard disk can also be created on another hard disk. You can use **Advance Options** of Stellar Phoenix recovery software to create clone. You can clone a hard disk but you cannot clone a logical volume.

- **Create Image** - This option has further two options. They are:
    - **Create Image of Entire Drive**
    - **Create Image of Selected Region**
- **Create Clone of a Hard Disk**

Create Image

You can create images of different storage devices and save them as .IMG files by using the '**Create Image**' option of **Stellar Phoenix Windows Data Recovery** software. The storage devices whose image you can create are:

- Hard Disks
- Existing logical volumes in hard disks
- Removable media such as pen drives, external hard disks etc.

Images, of all sources, listed earlier are saved as IMG file. This IMG file is of same size as of the source. You can use the image files to resume recovery later.

There are two ways in which you can create images using **Stellar Phoenix Windows Data Recovery** software:

- **Create Image of Entire Drive**
- **Create Image of Selected Region**

Create Image of Entire Drive

The image you create by using **Create Image** option of **Windows Data Recovery** will be of same size as the selected hard disk, pen drive, or volume. Ensure that the location where image file needs to be saved has sufficient space to store the image file.

To create image file of entire hard disk, volume, or removable media:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Advance Option** tab, click **Create Image**.
3. In '**Select Volume to Create Image**' section select the volume, or in '**Select Hard Disk to Create Image**' section, select hard disk.
4. In the flying pane, click **Start Imaging**.
5. In the **Save As** dialog box, locate the destination where image file should be saved. In the **File Name** text box, type a name. Click **Save**.
6. The **Disk Image Creation** shows the image creation process. When the image is successfully created, a message appears. Click **OK**.

Create Image screen

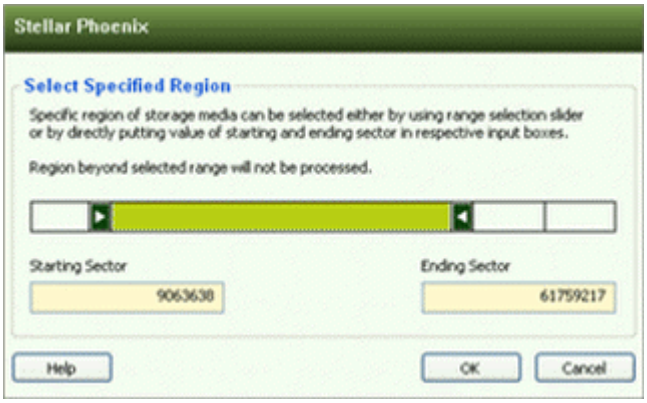
7. You can click **Scan Now** to start recovering files from the newly created image or start recovery later by using resume recovery option.

Create Image of Selected Region

Stellar Phoenix Windows Data Recovery software also provides an option to create an image of a selected region of hard disk, pen drive or logical volume for an advanced and technically proficient user. To use this option, you will need to specify the starting and ending sectors of the selected source. You can use this option, when you know the location of the data you want to recover, from your hard disk. Once you create an image file of a specific region of your hard disk, you can use it to resume recovery at any time.

To create image of selected region of source:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Advance Option** tab, select **Create Image**.
3. In '**Select Volume to Create Image**' section select the volume, or in '**Select Hard Disk to Create Image**' section, select hard disk.
4. In the flying pane, click **Select Region** link.
5. In '**Select Specified Region**' screen, drag the sliders to define starting and ending sectors of the image file. Click **OK**, and then click **Start Imaging**.
6. In '**Save As**' dialog box, locate the destination where image file should be saved. In '**File Name**' text box, type name. Click **Save**.
7. The **Disk Image Creation** shows the image creation process. When the image is successfully created, a message appears. Click **OK**.


Stellar Phoenix
Select Specified Region
Specific region of storage media can be selected either by using range selection slider or by directly putting value of starting and ending sector in respective input boxes.
Region beyond selected range will not be processed.
Starting Sector
9063630
Ending Sector
61759217
Help
OK
Cancel

Select Specified Region prompt

You can click **Scan Now** to start recovering files from newly created images or start recovery later by using the Resume Recovery option.

Create Clone of a Hard Disk

'**Clone Drive**' option of **Stellar Phoenix Windows Data Recovery** software allows you to create an exact replica of a hard disk. You will need to attach another hard disk for cloning the source hard disk. The size of the destination hard disk should be same or greater than the size of the source hard disk.

To clone a hard disk:

1. Run **Stellar Phoenix Windows Data Recovery** application.
2. Under **Advance Option** tab, **Clone Drive**.
3. Click **Select Source Disk** list box to select source disk drive. Click **Select Destination Disk** list box to select destination disk drive.
4. Click **Start Cloning**.

Clone Drive screen

View Hard Disk Status

'**Drive Status**' option of **Stellar Phoenix Windows Data Recovery** software shows information of an attached hard disk. The '**Drive Status**' section displays model number, serial number, size, temperature, status, S.M.A.R.T feature and firmware revision number of an attached hard disk. In addition, S.M.A.R.T information is also listed in the S.M.A.R.T information box.

The **Drive Information** box shows information such as total sectors, sectors per track, number of cylinders and number of heads. The volume information box shows information of existing logical volumes in the hard disk.

To view hard disk status:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Advance Option** tab, Click **Drive Status**.

Drive Status screen shows all information related to selected hard disk.

Drive Status screen

Scan Hard Disk for Bad Sectors

You can also scan your hard disk in order to see whether there are any bad sectors in your hard disk or not. Scanning process will show you all the bad sectors that are present in the hard disk. You can use this option to scan and view the health of your hard disk.

To scan hard disk, perform the given below:

1. Run **Stellar Phoenix Windows Data Recovery** software.
2. Under **Advance Option** tab, select **Drive Status**.
3. In the flying pane, click **Scan Disk**. Bad blocks are shown in red color, if any, found in hard disk.

Remote Recovery

With **Windows Data Recovery's Remote Recovery** feature, you now have the option of recovering data over a network. For recovering data using this feature, you first need to install **Stellar Remote Recovery Agent** client on all the computers of the network, from which you want to recover data.

Using **Remote Recovery**, data recovery is performed remotely via a secure connection between your machine and the target machine.

Using **Remote Recovery** feature of the software, you can access computers over the network and then recover data from any of the volumes / hard disk of the remote computer. This feature can recover data from any computer over any network.

You need to keep in mind the following points, while using the Remote Recovery feature:

- You need a connection between two machines to recover data over a network.
- On the **source machine**, you need to install **Stellar Phoenix Windows Data Recovery** software.
- On the **target machine**, you need to install and run **Stellar Phoenix Remote Recovery Agent**.
- You must know the IP address of target machine to establish a connection.
- Also, while establishing a connection, ensure that the port number of source and target machine should match.

To recover data using Remote Recovery feature, follow the steps given below:

1. Run **Stellar Phoenix Windows Data Recovery** on the source machine.
2. Run **Stellar Phoenix Remote Recovery Agent** on the target machine.
3. On '**Windows Data Recovery**' main screen, click on **Advance Option** tab.
4. On '**Advance Option**' screen,

Remote Recovery main screen

click on **Remote Recovery** option.

5. On '**Remote Recovery**' screen in **Stellar Phoenix Windows Data Recovery** software, enter the IP address of the target machine in the **IP Address** text box.
6. Enter a valid port number in **Port** text box between **1025 - 65535**. Ensure that you enter the same port number in the software and in the agent.
7. Click on **Start Agent** button in **Stellar Remote Recovery Agent** client. The client will display "**Agent is ready to accept connection.**" message.
8. On '**Remote Recovery**' screen in **Stellar Phoenix Windows Data Recovery** software, click on **Connect** button.

Once a connection is established, a message is displayed in the **Stellar Remote Recovery Agent** client message box.

Stellar Phoenix Remote Recovery Agent

Tip: *Upon successful connection between the source and target machine, the target machine's hard disks and volumes are listed in* ***Remote Recovery Agent's*** *screen.*

View Log Report

You can view, clear, and save log report of events and processes that occur in **Stellar Phoenix Windows Data Recovery** software. Log report can be viewed in '**Scan Result**' window.

To view log report

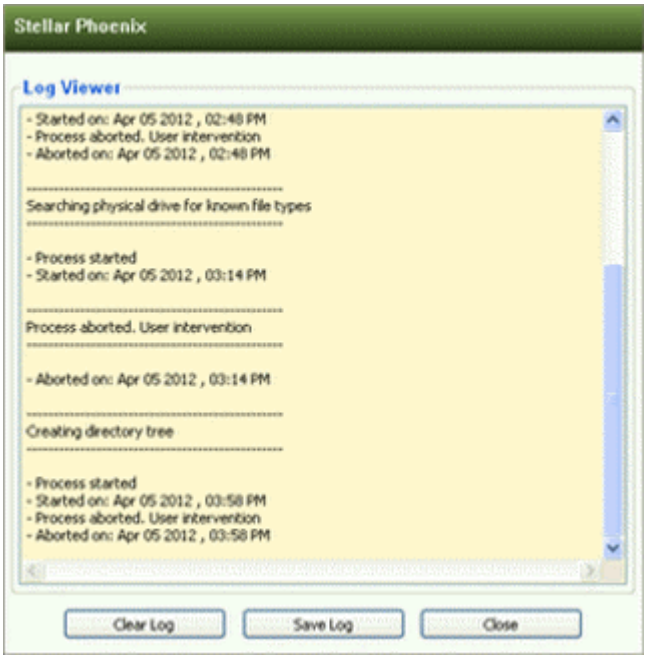
- On the tool bar, click **Log Report**.

To save log report

- On the tool bar, click **Log Report**.
- Click **Save Log**.
- In '**Save As**' dialog box, specify the destination to save log file. Click **Save**. Note that, a warning message to save log report is displayed, at the time of closing the application.

To clear log report

- On the tool bar, click **Log Report**.
- Click **Clear Log**.


Stellar Phoenix
Log Viewer
- Started on: Apr 05 2012 , 02:48 PM
- Process aborted. User intervention
- Aborted on: Apr 05 2012 , 02:48 PM
Searching physical drive for known file types
- Process started
- Started on: Apr 05 2012 , 03:14 PM
Process aborted. User intervention
- Aborted on: Apr 05 2012 , 03:14 PM
Creating directory tree
- Process started
- Started on: Apr 05 2012 , 03:58 PM
- Process aborted. User intervention
- Aborted on: Apr 05 2012 , 03:58 PM
Clear Log
Save Log
Close

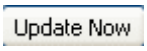
Log Viewer screen

Configuration Settings

You can change the settings of **Stellar Phoenix Windows Data Recovery** software before scanning.

To configure Stellar Phoenix Windows Data Recovery software:

- Run **Stellar Phoenix Windows Data Recovery**. Click . Under **General Settings** tab, configure general options:

    - **Check for 'Latest Updates' at startup** - Select this check box to receive latest updates. You can also click 

to launch **Stellar Phoenix update wizard**. This wizard automatically detects and downloads the new updates of the software.
    - **Log Settings** - Select '**Save log before closing application**' check box to automatically save log of processes. Click **Browse** to specify the destination where log files should be saved.
    - **Scan Settings** - Choose it to avoid signature search in **Advance Scan**.

- Click **Add File Types** tab to select, add, remove, or edit file type. This will become the default settings.

Selecting File Type

File types give information about the type of file such as video, audio and its extension. You can select file types while performing signature search such that, scanning process should search only for the specified file types.

File types are listed in the **Add File Types** tab of **Settings** screen and **Photo/Image File List** screen in the **Photo Recovery**. The '**Software Name**' column shows the software that created the files having the specified file type, '**File Extension**' shows the extension of the file and size (KB) shows the maximum allowed size of files having the specified file type. The file types are categorized according to groups. File Type (s) includes every file type available in different file groups. Different groups are Application, Graphic, Pictures & Raster Images, Archive, Audio, video & Animation, Mails, Database, Office Documents, Internet, and Miscellaneous.

Photo/Image File List screen in the **Photo Recovery** shows only the file types of supported image files.

To select file types from file list for scanning:

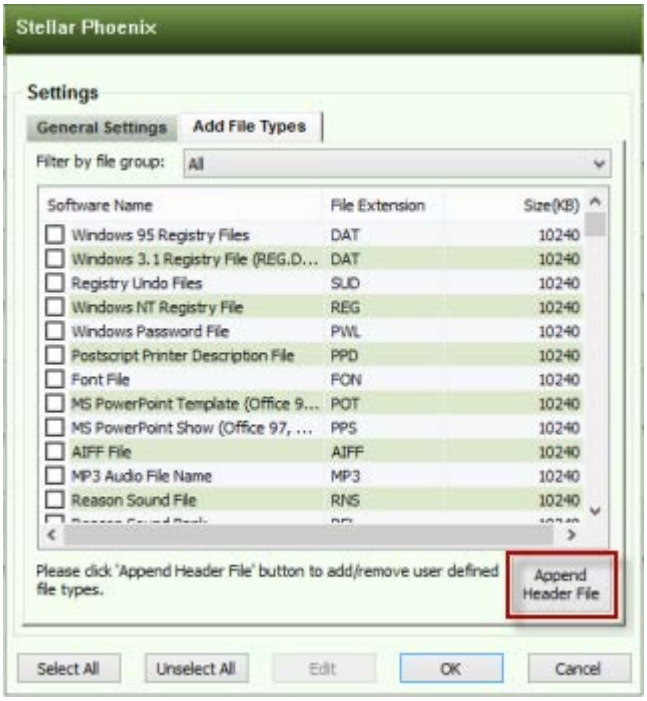
1. Select required file types.
2. Click **OK**.
3. You can click **Select All** or **Unselect All** button to select or unselect all the file types.

Adding File Type

You can add file type to the list of 'File Types' while performing signature search. In case, the file you are searching is not available in the file list you can add the file by specifying the software name, size, header information, and file extension.

To add a file type:

1. In '**Settings**' section, under '**Add File Types**' tab, click **Append Header File**.
2. In '**Add New Header**' screen, click **Add**.
3. In '**Add/Edit Header File**' screen, provide the values:
   - **Software Name** - Type name of the software or file.
   - **Group** - Select the group under which new file type will be included.
   - **File Extension** - Type the file extension.
   - **Header (in hexadecimal)** - Type the header value.
   - **At Offset (in decimal)** - Type the offset value.
4. Click **OK**.



Append Header File List screen

Editing File Type

You can also edit an existing file type or newly added file type. You can change every setting of the file type.

To edit a file type:

1. Select the file type that needs to be edited.
2. Click **Edit**. In '**Add/Edit Header File**' screen, edit the following values:
   - **Software Name** - Type name of the software or file.
   - **Group** - Select the group under which new file type will be included.
   - **File Extension** - Type the file extension.
   - **Header (in hexadecimal)** - Type the header value.
   - **At Offset (in decimal)** - Type the offset value.
3. Click **OK**.

Add/Edit File Type screen

Tip: *You can also edit a file type from **Add New Header** screen.*

Removing File Type

You can remove user-defined file types in **Stellar Phoenix Windows Data Recovery** software.

To remove user-defined file types:

1. In '**File List**' screen, click **Append Header File**.
2. In '**Add New Header**' screen, select a file type and then click **Remove**. Repeat the procedure to remove other file types from the header file list.

Possible Errors While Using Stellar Phoenix Windows Data Recovery

1. **Can I repair images using the software that are not opening after the recovery?**

   The software is a recovery application and cannot repair any corrupted images. The data will be recovered in the same form as it available in the media.

2. **I am not able to see my camera in the software. What am I doing wrong?**

   There is a possibility that your camera doesn't support the access to memory card as a disk drive. You need to attach the memory card through a card reader for accessing the memory card. This will enable you to scan your camera memory card.

3. **When I am trying to recover the data, I get error "*Source and destination are same.*" What shall I do?**

   You are trying to save the data on the same media from where you are recovering it. Please choose another location to save the files and software will not give you this error anymore.

FAQs

1. **Are only audio, video, documents and photos recovered by this software?**

   Not just this, there is more that the software can do. **Stellar Phoenix Windows Data Recovery** software can recover all files and folders in the selected volume like emails & other documents.

2. **Can I recover a specific file by help of this software?**

   Yes, you can recover specific files with the help of this software. Once you scan the selected media from which you need to recover files, simply wait for the scan to complete. Then select the file or folder you need to recover from the scan results and click on the '**Recover**' button to save the files at a required destination.

3. **I have formatted a volume. Can I recover the files in it?**

   Yes, absolutely! Just launch the application, click on drive recovery and select the volume from which you need to recover data from. After this selection, click on '**Advanced Recovery**' to begin scan. Once the scanning process is over, you should be able to recover data from formatted volume.

4. **I have deleted a volume. Can I recover the files in it?**

   Yes, without a doubt! Choose '**Search Lost or Deleted Volume**' option in the application which appears after clicking on '**Drive Recovery**' which is under the '**Data Recovery**' head to find lost or deleted volumes. Select the hard disk from which you need to recover the deleted volume and then click on **Search Lost Volume**' tab that opens.

5. **What is quick scan and deep scan?**

   Quick scan is a faster scanning option. If the files are not recovered through this scanning option, then you can use deep scan which uses a different algorithm to search lost data and deliver extensive results.

6. **From where I can buy the product? Is there any demo option available?**

   Our software is available for download & purchase on our web site. Like most our software, **Stellar Phoenix Windows Data Recovery** is available as a '*Try Before Buy*' software. You can download the FREE version of the software from here to scan your storage media from which you wish to attempt recovery. The FREE version will scan & show you the preview of recoverable files so that you can be sure that the software will be able to recover your data in order to save those files you will have to buy the software.

7. **Can I recover data from my ExFAT partition?**

   Yes, you certainly can! **Stellar Phoenix Windows Data Recovery** software supports FAT, NTFS, and ExFAT file systems.

8. **How to find only a particular file type and recover them?**

   For this use the '**Advanced Find Option**' above the preview window and search the files according to your criteria. Select the file (s) and click the **Recover**' button to save your files at the desired destination.

9. **Can the software recover only images from a removable storage device?**

   Yes, you can recover only photos from removable devices like pen drive, memory card etc. Use '**Photo Recovery**' option to search for only image files.

10. **Is it necessary to rebuild RAID before performing its recovery?**

    Yes, reconstruction of RAID is necessary to verify that data is consistent. After building the RAID, you can scan and recover data in volumes, RAID, and also search lost volumes in the RAID.

11. **How to choose from the list of possible RAIDs for recovery, if parameters are not known before rebuilding RAID?**

    Information about RAID is given along with it in the list. A score is given to all the rebuilt RAIDs. This score is according to the probability of data recovery if that RAID is chosen. You can choose the RAID, according to the information and score.

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